



# AFCESA A-GRAM



AIR FORCE CIVIL ENGINEER SUPPORT AGENCY

00-09

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## AIR FORCE QUALIFICATION TRAINING PACKAGE (AFQTP) VIDEO – CIRCULAR AND RECIPROCATING SAWS

### SYNOPSIS:

We have completed a new qualification training package audiovisual product – Circular and Reciprocating Saws. This production was transferred to the US Army Visual Information Center (USAVIC) in Tobyhanna PA for automatic distribution to all AF civil engineer organizations. It supports the Air Force Qualification Training Program for home station training. This program presents standardized step-by-step procedural guidance describing how to perform specific tasks outlined in paragraphs 14.1.3 and 14.1.5 in the Specialty Training Standard portion of the Structural Career Field Education and Training Plan.

### CIRCULAR AND RECIPROCATING SAWS:

The *Circular Saw* portion addresses safety features for safe operation, preparing the saw for use, and operating the saw to accomplish various cuts.

The program opens with a discussion of the saw's safety features and identifies the various parts of the saw. The saw's applications and limitations, as well as the potential safety hazards, are highlighted. The main themes of this section are safety rules that seem to cause the most trouble and instilling the importance of *Reading the Saw's Operating Guide!*



Saw performance depends on the choice of blade and how the blade is adjusted to cut the material. The most common types of blades are shown, including the frame and rip, carbide tipped, combination, and cross-cut.

The adjustment section covers how to properly install blades and adjust the depth of cut. Proper blade setup and cutting technique go a long way toward preventing the most common hazard encountered, which is *kickback*. Several improper cutting techniques demonstrate the need to follow safe operating procedures to prevent this from occurring.

The operation section explains the saw foot front guide edge alignment marks and shows how to properly hold and maneuver the saw through a cut. A variety of cuts are shown, including crosscut, plywood cut, pocket cut, and a rip cut. The rip cut explains how to install and use a rip fence to make a straight long cut.

The *Reciprocating Saw* portion of the video identifies the type of work this saw can accomplish -- maintenance work, roughing-in, remodeling, and work where space is limited. To accomplish these tasks, a detailed discussion on the different types of blades and their uses is covered in detail.

The reciprocating saw has many built-in features that are identified for safety, performance, and dependability. Along with the Owner's Operating Manual, these features make the saw safer and

easier to operate. Various cuts are demonstrated: normal cross cut, plunge cut, metal and plastic pipe, and sheet metal. The remodeling portion emphasizes the importance of double checking what's behind the material being cut. Cutting into an electrical line or through plastic water pipe can be quite hazardous.

### ACCESSIBILITY:

Additional copies of this and other contingency training audiovisual products can be ordered from USAVIC/JVIA ATTN: ASQV-JVIA-T (USAF) Building #3, Bay #3, 11 Midway Road, Tobyhanna PA 18466-5102. A point of contact at USAVIC is Ms. Maria DiGenova, DSN 795-6543 or FAX 795-6106. Questions regarding home station training audiovisual products automatic distribution should be addressed to Mr. Ralph Gruber, HQ AFCESA/CEOT at DSN 523-6181 or E-mail: [Ralph.Gruber@afcesa.af.mil](mailto:Ralph.Gruber@afcesa.af.mil).

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